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BS News

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BSNews

MECHANICAL & ELECTRICAL BUILDING SERVICES

*Where in the World Can I
Find That Product?*



in the
BSNews Buyer Guide 2001/2002
of course!

Innovation in Pumping Technology



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MHi

Stainless Steel Vertical and Horizontal multistage pumps for water supply, boosting, sprinkling, irrigation, high pressure wash, fire protection and water treatment (De-mineralisation, Filtering).

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- Boosting
- Sprinkling
- Irrigation
- High pressure wash
- Fire protection
- Water treatment
- Boiler Feed

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WILO Engineering Ltd., Enterprise Centre
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BSNews*

MECHANICAL & ELECTRICAL
BUILDING SERVICES

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Readership Data

Irish Building Services News (formerly Irish H&V News) is Ireland's only Building Services magazine providing coverage of heating, ventilating, air conditioning, refrigeration, sanitaryware, plumbing, maintenance and environmental industries. It is the only publication catering exclusively for these industries and its circulation includes members of the following:- Chartered Institution of Building Services Engineers (CIBSE);

The Mechanical Engineering & Building Services Contractors' Association (MEBSCA); The Association of Consulting Engineers of Ireland (ACEI); The Mechanical Engineering Contractors' Association; The Institute of Domestic Heating Engineers (IDHE);

The Registered Heating Contractors Association; The Maintenance, Energy & Environmental Technology Association (MEETA) which incorporates energy managers and maintenance managers;

The Energy Conservation & District Heating Association; The Institute of Plumbing; The Irish Home Builders Association (IHBA); Builders Merchants/Trade Supply Outlets; Irish Property & Facilities Managers Association.

In addition, Irish Building Services News circulates to independent building services contractors and key executives in industry. Government, Semi-State and local authority bodies. Essentially, our circulation is virtually saturation coverage of all those with an interest and/or involvement in the industry.

Find That Product ... Fast!

Need to locate a particular product type and/or specific brand ... then look no further than the *BSNews* Buyer Guide. This publication is long regarded as the Specifier's Purchasing Bible, the Who Represents Whom? of the entire building service industry in Ireland. It has been continuously published bi-annually since 1964, the content and presentation format of each edition changing in tandem with the industry's needs. The forthcoming 2001/2002 edition is no exception.

The Irish Building Services Buyer Guide, 2001/2002, contains over 6500 cross-referenced, indexed, mechanical and electrical product details, presented in an easy-to-find format under clearly-defined product categories. Manufacturers, distributors, agents and stockists are listed, along with contact names and telephone numbers; fax numbers; email addresses; and websites.

It also contains a full membership listing of the Mechanical Engineering Building Services Contractors Association (MEBSCA); selected medium to large-sized member of the Association of Electrical Contractors of Ireland (AECI); and the members of the Electrical Contractors Association (ECA);

Those to whom the *BSNews* Buyer Guide is invaluable are:—

- Mechanical and electrical consultants
- Mechanical and electrical contractors
- Architects
- Energy Managers
- Building Services Engineers
- Property & Facilities Managers
- Plumbers
- Builders Merchants
- Maintenance Managers
- Refrigeration Engineers
- Home Builders
- Commercial/Industrial builders
- Installers/Commissioning Agents

All *BSNews* readers will automatically receive their own personal copy of the Buyer Guide. Additional copies can be obtained by sending a cheque for £50 made payable to Pressline Ltd to *BSNews*, Carraig Court, George's Avenue, Blackrock, Co Dublin.

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TRADE NEWS

Advanced Air Appoints Control Aer

Control Aer has once again proven to be the preferred choice of a leading supplier with its appointment as exclusive agent for Advanced Air's range of fire smoke dampers and Control System 41 panel.

Designed to enhance building safety, Advanced Air's innovative smoke damper control panels (System 41+) are simple and flexible. The addressable loop system offers control of up to 504 dampers in 72 zones from one panel, with a programmed smoke control strategy defined by the client. Among the many options on offer are zone and/or individual damper control, a remote Fireman's override panel, and BMS communication.

Accredited with quality assurance system (assessed to BS EN) ISO 9002, Advanced Air manufactures its entire range to the highest possible quality and reliability standards. They are submitted to all fire testing authorities, including LPC (for which they are on the approved products listing), BSRIA, and have membership in HEVAC Association.

Advanced Air fire/smoke dampers are certified to conform to BS476 Part 8 — Fire research station approved PPCB; conformance to DW142, UL555 and DEF07-55 (shock tested); Lloyds Register of Shipping Certificate no: SVG/F95076.

Advanced Air, supplied and commissioned throughout Ireland by Control Air Ltd.

Contact: Michael Renaghan, Control Aer. Tel: 01 - 626 0177; Fax: 01 - 626 0434; email: michael@controlaer.com Website: www.controlaer.com

All-Digital HVAC Instrumentation Kit

The Dwyer Model Path Super Kit from Manotherm neatly places this company's popular Series 477 Digital Manometer,



The new Dwyer Model Path Super Kit from Manotherm.

Series 485 Digital Hygrometer and Series 471 Digital Thermo-Anemometer into a durable and protective, attaché-style carrying case.

The Series 477 Digital Manometer measures positive, negative or differential pressures of 0 - 20 in. w.c. (0 - 5 kPa) with

±0.5% FS accuracy. It features a large, easy-to-read LCD; nine user-selectable units of measurement; electronic zeroing; a HOLD key for freezing current pressure; audible and visual alarms; and a switchable backlight. This instrument stores up to 20 readings in memory.

The Series 485 Digital Hygrometer measures relative humidity and temperature. It also derives dew point and wet bulb temperature. For readings that keep fluctuating, the instrument has a display hold key for freezing them. The unit will store up to 25 readings for later analysis.

The Series 471 Digital Thermo-Anemometer simultaneously measures temperature (up to 212 °F/100°C) and air velocity (in feet per minute or meters per second) in four

ranges — 0 - 500 FPM (0 - 3.0 MPS), 0 - 1500 FPS (0 - 7.0 MPS), 0 - 5000 FPS (0 - 30 MPS), and 0 - 1500 FPS (0 - 70MPS).

Included with this comprehensive kit are a 36" stainless steel telescoping pitot tube; two static pressure tips with magnetic mounting; two 4 1/2 ft lengths of 3/16" ID rubber tubing; a step drill for 3/16" to 1/2" holes in 1/16" increments; an air velocity slide chart; and three 9-volt batteries.

Contact: Bob Gilbert/Brian Harris, Manotherm Ltd. Tel: 01 - 452 2355; Fax: 01 - 451 6919. email: manotherm@eircom.com

PHEX Joins Premiership

Premiership venues for a Premiership series of exhibitions ... Phex, the domestic plumbing and heating exhibition, takes place at Manchester United FC, Old Trafford, 4/5 October; and Chelsea FC, Stamford Bridge, 15/16 November.

Both exhibitions are supported by the majority of leading manufacturers covering the domestic plumbing and heating industry and will feature 100 plus stands at each venue. In addition to the visitors being able to go on ground tours at each venue, they will receive a free buffet meal, plus the opportunity to enter the PHEX "Spot the Ball" competition with individual club vouchers which can be redeemed in both the Manchester and Chelsea club shops.

At Manchester United both Gordon Banks and Nobby Stiles will be on hand to discuss their World Cup and career experiences and sign autographs.

Dates of next year's exhibitions:— Hampden Park, Glasgow — 2 & 3 April; Murrayfield Stadium, Edinburgh — 4 & 5 April; Newcastle FC — May 2001; Manchester FC — October 2001; London FC — November 2001.

Cleaning Ducting and Extract Systems

The Institute of Maintenance & Building Management (IMBM) will hold a seminar on the cleaning of HVAC ducting and extract systems on 26 October at the Law Society of Ireland in Blackhall Place, Dublin 7. Time: 7.30pm sharp.

Contact: Fred Hosford, IMBM. Tel: 01 - 402 4016.



** Air Management Engineers **

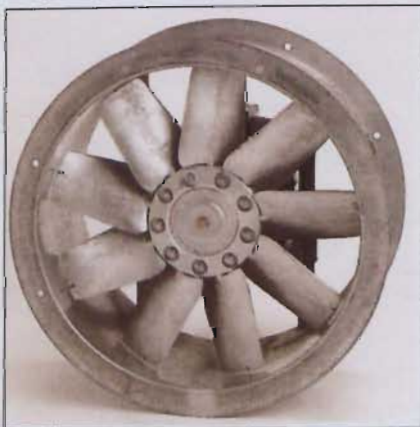


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TRADE NEWS

Carrier Global Chiller 3

Nearly 5000 Carrier Global Chillers have been sold worldwide in less than four years, making it as the most successful Carrier chiller ever. This pattern is set to increase still further with the recent introduction of Global Chiller 3, which incorporates a host of refinements and advancements.

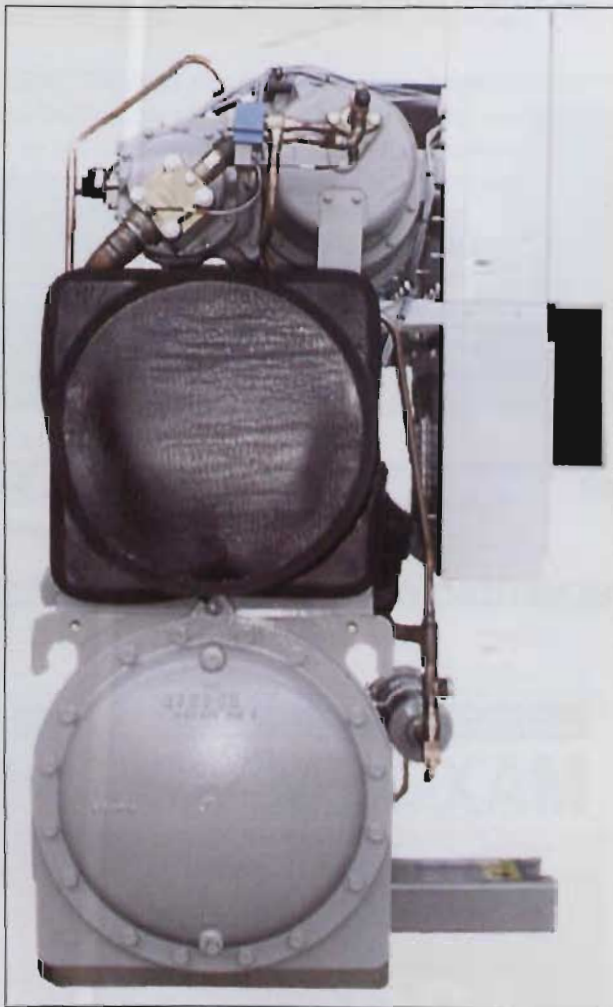
The COP of the Global Chiller has been improved by a further 2.2% on average. It has improved reliability, improved resistance to corrosion, and improved serviceability. Heat recovery capabilities have also been improved.

The product dimensions have been modified. It is 10% shorter in length and up to 100mm less in height, depending on the model. Although it is slightly wider, all water-cooled machines can still pass through a standard 1m wide door.

A number of new options have extended the operating envelope. Heat recovery and cooling tower applications now have specialised options.

The dual circuit Pro-Dialog control technology that has proved itself this year on the Carrier Aquasnap product has been applied to the Global Chiller. It has a modified human interface. Advanced prognostic functions have been added including a water loop 'too small' alert, a clogged coil alert, and a refrigerant leak alert. Further troubleshooting capabilities will also be added.

Refrigerant safety valves conforming to ISO 5149



The improved, more compact Carrier Global Chiller 3 from Core Air Conditioning.

are also included as standard on the evaporator and condenser. 'Virtualic' water connections have been incorporated for ease of installation. Also contributing to this are factory-fitted, maintenance-free water flow switches and entering/leaving condenser water temperature sensors, and an easily-accessible check valve on the oil pump by-pass.

The new, separate control box with hinged doors, has space inside for customer wiring and spare

power to energise condenser and evaporator water pumps.

Contact: Austin McDermott, Core Air Conditioning.
Tel: 01 - 294 3110;
Fax: 01 - 294 3115; email: coreac@iol.ie Website: ireland@iol.ie/~coreac

KK 2000 Nuremberg

The IKK Internaitonal Trade Fair for refrigerating and air conditioning will take place in Nuremberg from Wednesday to Friday, 18 - 20 October, 2000.

The product segments on display will cover refrigeration equipment and room air conditioners — such as portables, split and multisplit units — along with VRF systems, liquid cooling sets, fan coils, air humidifiers and dehumidifiers. In all over 700 exhibitors from all over the world will present at Nuremberg.

The various product segments at IKK include:-

- Components and units for the assembly of refrigeration and air conditioning plant for building services, commerce, industry and logistics;

- Components for air movement, treatment and distribution;

- Refrigerants;
- Air conditioners, split and multisplit units, liquid cooling sets;

- Refrigerated cabinets, cold storage cells, cooling units;

- Tools and supplies for installation and servicing, disposal equipment for refrigerants and oils, fuels;

- Services.

Contact: Nuremberg Messe.

Tel: 0049 911 8606 126;

Fax: 0049 911 8606 760;

Website: www.ikk.info.de

Traynor Back On Line! ...

The agony and distrupction is over (hopefully) for JN & G Traynor & Partners. Their ISDN lines are now fully operational and they can be contacted at

Tel: 01 - 281 5550; Fax: 01 - 660 2942;

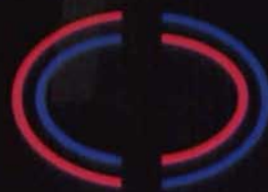
email: info@traynorandpartners.com

Website: www.traynorandpartners.com

web enable your buildings

With an all new controller and keypad range, the UNITRON 2000 system delivers fuss free installation and low lifetime operating costs. And because you are moving with the times UNITRON 2000 is TCP/IP ready. Serving information by intranet, extranet or the web direct from your building management systems. What could be easier? For further information contact John O'Driscoll today on 01 8366626.

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Thermal to Feature at IKK

For decades Thermal has been a well-known name in the refrigeration and air-conditioning market. In the last six months it has developed several products, all of which will be introduced at the IKK 2000 in Nuremberg, Germany (see page 4). For instance, the new "Compact 2000" (C2) Series with a performance range from 35kW to 277kW at 15°K Δt was developed with the refrigeration engineer and

installer in mind.

Thermal will also introduce a standard range of compressor housings which can be ordered with any standard air cooled condenser. This "modular compressor housing" (MCH) concept for the HLK AV9/10 Series offers a wide range of compressor fixtures; two different housing sizes; is optionally fitted with 40mm sound insulation; and is powder-painted with the most



Thermal Heat Exchangers' new Compact 2000 (C2) Series

Toshiba Heat Pump Controls

A new 8-page, full-colour leaflet containing information about all of the current Toshiba 4 Series heat pump controls is now available from G T Phelan Ltd.

All Toshiba's 4 Series heat pump indoor models incorporate the new "Artificial Intelligence" control platform. This simplifies the procedure for integrating systems.

Additionally, an artificial intelligence network can now provide virtually limitless control options. Full data retrieval is possible from indoor units which can be grouped or individually addressed.

The literature illustrates Toshiba's full range of versatile, fully-compatible controls products, from individual wall-mounted or hand-held remote controllers to sophisticated BMS-compatible group and central control options.

Contact: Gerry Phelan, G T Phelan. Tel: 01 - 286 4377; Fax: 01 - 286 4310; email: gtphelel@eircom.net



An example of Thermal Heat Exchangers' new compressor housing range.

sophisticated polyester-based powder paint available, therefore guaranteeing best UV, and weather resistance.

IKK is Europe's premier air conditioning/refrigeration trade exhibition. All of the world's leading

manufacturers and suppliers participate, and it's appropriate that Thermal is a party to that event. The show will take place from 18 to 20 October next and Thermal will occupy Stand 328 in Hall 6.

Runtal Zehnder Toga

The Runtal Zehnder Toga is a towel-drying radiator incorporating flexibility and contemporary style.

Manufactured with hard-wearing outer coatings and offering efficient heat outputs with ease of installation, the Runtal Zehnder Toga is ideal for contract applications. Suitable for connection to the central heating system and with electric versions available to order, the Runtal Zehnder Toga offers flexible heating options.

Its high towel-hanging capacity makes it the ideal solution for heating bathrooms and warming towels within hotels, apartments and similar applications.

Runtal Zehnder Toga can be supplied in many different lengths, with optional connections and in a variety of colours and sizes to complement a range of bathroom designs.

Contact: Alan Hughes/Stephen Sheenan, Runtal Zehnder. Tel: 056 - 61570; Fax: 056 - 61485.

Photo shows the Runtal Zehnder Toga.





MATKI CENTRES

DUBLIN

Aden Bathrooms;
Brookfield Builders;
Davies;
Bathrooms of Tomorrow;
GT Garton;
P H Ross;
PLM;
Tullys Tiles;
Chadwicks Plumb Centre (Stillorgan);
Waterloo Bathrooms.

NATIONWIDE

Carlow — P J Nolan;
Cork — Tile Choice;
Drogheda — Bathrooms 2000;
Ennis — Ennis Supply;
Letterkenny — James Johnston;
Limerick — Abbey Heating;
Navan — Versatile Bathrooms & Tiles;
Tuam — Tuam Heating & Plumbing;
Tullamore — Walsh Bros;
Wicklow — Absolute Bathrooms, J P Hopkins.

NORTHERN IRELAND

Bangor — Haldane Fisher;
Belfast — Beggs & Partners, S C Jebb;
Coleraine — J McCandless;
Enniskillen — W J Thompson;
Lisburn — Plumbrite Supplies, Shawmac Ltd;
Newry — Haldane Fisher Ltd;
Newtownards — Shawmac Ltd;
Portadown — P M Bassett.

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Website: www.bjcaraher.co.uk

TRADE NEWS

Mixed Mode Ventilation

CIBSE has published a new guide offering fresh insight into the servicing strategy of combining natural and mechanical ventilation and/or cooling. *Mixed Mode Ventilation* takes readers step-by-step through the design process to ensure best results from this exciting and adaptable technology.

Mixed mode ventilation presents a compromise between natural ventilation and full air conditioning, avoiding "all-or-nothing" choices. Properly designed, it offers greater building adaptability and longer useful life along with higher occupant satisfaction as it combines the perceived advantages of openable windows with mechanical ventilation.

Mixed mode options can result in easier-to-manage buildings with less complex HVAC systems, and higher overall building energy efficiency.

The new manual gives much-needed guidance on integrating mixed mode approaches with passive building elements, and the best methods of control. Using a spectrum of information from surveys of completed buildings to highlight potential problems designers may face, *Mixed Mode Ventilation* combines best practice methods with innovative thinking.

Copies of CIBSE AM13: 2000 *Mixed Mode Ventilation* cost STGE52 (discounts for CIBSE members) and are available from: Publication Sales, 222 Balham High Road, London SW12 9BS. Tel: 0044 2086 755211; Fax: 0044 2086 755449; email: pubsales@cibse.org

McInerney Holdings Expand into Galway



McInerney Holdings plc has announced its Irish home building subsidiary, McInerney Construction Ltd has acquired an extensive landbank of 40 acres in Galway and started construction on-site for the potential development of 350 houses. The site is located at Doughiska on the eastern side of Galway adjacent to the Dublin road. Pictured at the Doughiska development are: Eugene Gantley, Regional Director, Limerick, McInerney Construction Ltd; Roy Ferris, Chief Executive, McInerney Holdings; and Barry O'Connor, Managing Director, McInerney Holdings.

Refrigeration Network Training Programme

Everyone in the refrigeration sector is acutely aware of the need for training and retraining of staff but how many companies are doing anything about it? Actually, quite a few. A new training network for those involved in the design, distribution, installation and maintenance of refrigeration technology in Ireland has been actively promoting training courses developed by industry, for industry, since May 2000.

Since that time, 29 enterprises have sent a total of 63 trainees on network training events and this number is expected to increase significantly before the year is out. The programme so far has focused on refrigerant handling and general refrigeration.

Further courses on general refrigeration are scheduled for October 2000 and December 2000. A new course on air conditioning technology is also available in October 2000.

The network is open to all companies and individuals in the industry and is managed by a voluntary board with the help of a project manager, from the Dublin Institute of Technology.

Contact: Enda Hogan, Refrigeration Technology Skillnet, c/o DIT Applied Technology Services. Tel: 01 - 878 3773; Fax: 01 - 872 9126; email: enda.hogan@dit.ie Web: www.dit.ie/ats

Irish Standard IS 820:2000 Declaration of Conformance

The most recent IDHE technical evening focussed on Irish Standard IS820:2000 – Non-Domestic Gas Installation. The target audience was those engaged in the design, construction, servicing and operation of non-domestic gas installations, and also the suppliers of materials and equipment to this sector.

The new Standard IS 820:2000 was recently published by NSAI. This Standard – presented in the CEN European format – supersedes ICP 4 and SR 12, and relates to the installation of gas pipework and equipment for LPG or natural gas to non-domestic buildings supplied at pressures up to 5 bar.

There is much new in the content. There are requirements for constructors and commissioners as before, but also new in this Standard are requirements for designers; the issue by responsible persons of Declarations of Conformance; and requirements for a building operator to ensure the installation is maintained and operated safely.

Other "new" issues addressed include the location of LPG cylinders; the installation of second-hand catering appliances; safety inspections of existing installations; and the issue of Notification of Hazard.

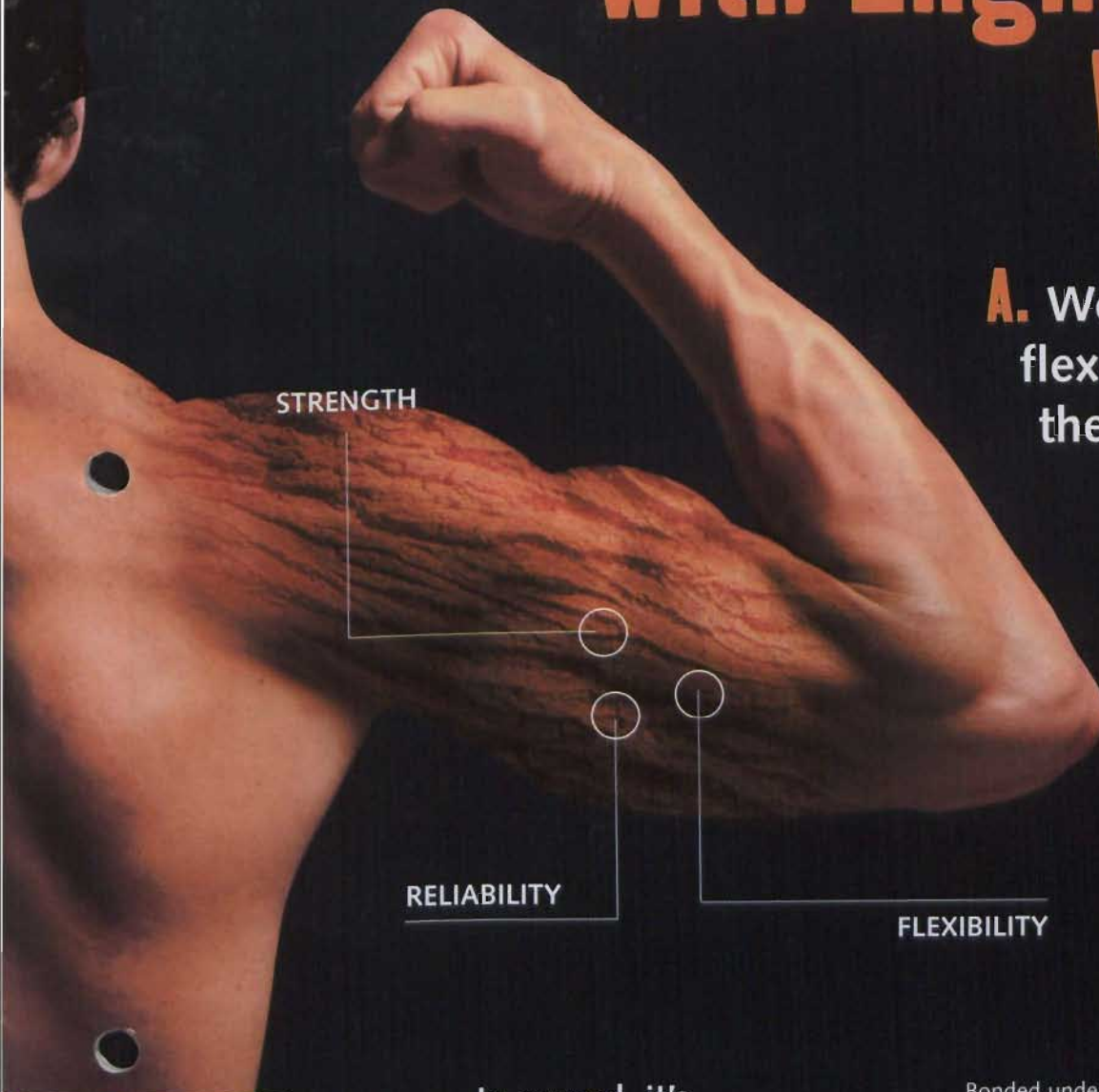
The presentations on the evening were by Justin Tallon, NSAI and Pat Walshe, Bord Gais. Both were members of the technical committee responsible for drafting the Standard.

The presentation also qualified for CPD points as per IDHE and IoP.

Contact: Eamon McGlade, Technical Co-ordinator. Tel: 01 - 602 1367; Fax: 01 - 602 1135; email: emcglade@bge.ie

Q. So, what's the big deal with Engineered Wood?

A. Well, it's tough, flexible, good for the environment and has a flawless finish.



• BUILDING

• CRATING

• FLOORING

• HOARDING

• ROOFING

In a word, it's **SmartPly** OSB.

SmartPly OSB (oriented strand board) meets both Irish Building Regulations and Homebond requirements.

It is made from sustainable logs grown in Coillte renewable forests.

Manufactured using exterior phenolic resins, it can be used in both exterior and interior applications. It won't split, crack or delaminate and with its solid core and face has no gaps or splits.

Bonded under intense heat and pressure, it keeps its shape and can be cut or nailed as close as 10mm to the edge.

It has a flawless finish enabling it to be painted or sanded with ease.

It is a cost-effective replacement to softwood plywood in most applications.

From Hoarding to Flooring, Crating to Portable Buildings - if you're in the construction business, you need **SmartPly**.

SmartPly OSB

STRUCTURAL SOLUTIONS IN ENGINEERED WOOD

A Joint Venture between



Louisiana-Pacific

coillte



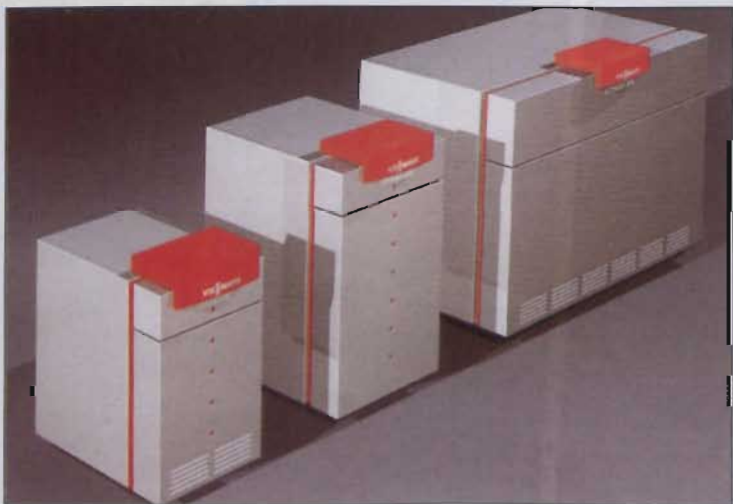
TRADE NEWS

Viessmann Vitotec Building Services Solution

Viessmann offers an unparalleled programme of high technology and excellent engineering for most building services applications and needs through its Irish distributors Precision Heating. From the cellar to the roof, from wall-hung boilers to solar collectors and heat pumps — for the traditional fuels of oil and gas to the latest in re-

extended, but so too has the sophistication of the products.

With the trend across Europe towards wall-hung, Viessmann has taken a further step along this route with the new wall-hung programme: Vitopend and Vitodens. For many applications and requirements, Precision has the right high-quality, high-performance wall-



Viessmann Vitogas range of floor-standing modular gas-fired boilers from Precision Heating

usable and re-cycled energy sources — Viessmann has something for everyone.

For instance, the Vitola boiler range has been extended to include boilers with outputs up to 63kW. Although a cast iron sectional boiler, the Vitroind 200 is a genuine three-pass, compact unit with outstanding performance and offering excellent value-for-money.

The Vitogas floor-standing gas boiler range has also been extended, with Vitogas 100 outputs up to 144kW. Not only has the output and range been

hung boiler.

Turning to the Vitosol Solar System, Precision's Alan Hogan says that an inexhaustible energy system is now within clients' reach, not to mention an almost inexhaustible market opportunity. Thanks to the special Sol-Titanium coating on the collectors, the Vitosol programme is claimed to be one of the most efficient in the marketplace.

Air, earth and ground water are also reserves of usable energy and the Vitocal heat pumps know

how to extract this useful energy. This new and exciting market segment is set to expand and grow as the benefits become more widely known. Viessmann is already making progress in this challenging market.

Hot water cylinders is one component in the system that is easy to overlook. Nonetheless, Viessmann sees this segment as very important and has a comprehensive range of cylinders, not only in terms of capacities but also applications. Special twin-coil units designed for use with solar systems are typical examples from the innovative Vitocell hot water cylinder range.

The higher outputs required by boilers for applications in public institutions, schools and other large buildings demand special requirements to be fulfilled by the construction design team. In this respect, the medium and large size boilers from Viessmann are impressive not only on account of their output, but also in terms of their economic, reliable and environmentally-friendly operation.

The complete range covers modulating and condensing boilers up to 5900kW; low-pressure and high-pressure boilers up to 14,500kW; and special boilers up to 11,630kW for market gardens. These higher output ranges are known as Paromat, Rondomat and Vertomat.

Contact: Alan Hogan or Stephen Browne, Precision Heating. Tel: 01 - 842 8763; Fax: 01 - 842 8820; email: ahogan@precisionheating.ie sbrowne@precisionheating.ie

Tiefu Dampers purchased by Control Aer

Control Aer Ltd has purchased the oldest and only Irish-manufactured and designed fire damper company which traded under the name "Tiefu Fire Dampers" from Sandford Manufacturing Ltd. The damper has been tested and approved to BS476 part 20 and, unlike many imported alternatives, has been rated for "4 hours" as a single unit.

Supplied in both galvanised steel or stainless steel blade/galvanised casing, with or without HVAC installation frame, it is readily available ex-stock in standard sizes. Special sizes and extra-large quantities are available within 3/4 days of ordering.

Control Aer has enhanced the manufacturing process by recently installing the latest CNC presses. These enable it to surpass the quality standards of many dampers presently sold in Ireland.

Control Aer has already enjoyed enormous success since its launch with customers attracted by the competitiveness of the pricing structure and quick turn-around times.

Contact: Michael Renaghan, Control Aer. Tel: 01 - 626 9177; Fax: 01 - 626 0434; email: michael@controlaer.com Website: www.controlaer.com

Grundfos Comfort



• State-of-the-art technology

Optimum convenience of operation and high reliability thanks to proven ball motor technology and a host of clever details.

• Simple installation

The ideal range of pumps for new installation, bathroom modernization or for pump replacement. Simple and low-cost assembly without any need for additional fittings. Mains connection via flexible or rigid cables. 24 hour timer can easily be read from every position thanks to the rotating head.

• Extreme reliability

The ball motor technology makes the Grundfos Comfort particularly resistant to limescale, and in extreme cases the rotor is easy to remove for descaling.

• Flexible range

Standard version:

with inside thread R 1/2, installation length 80 mm

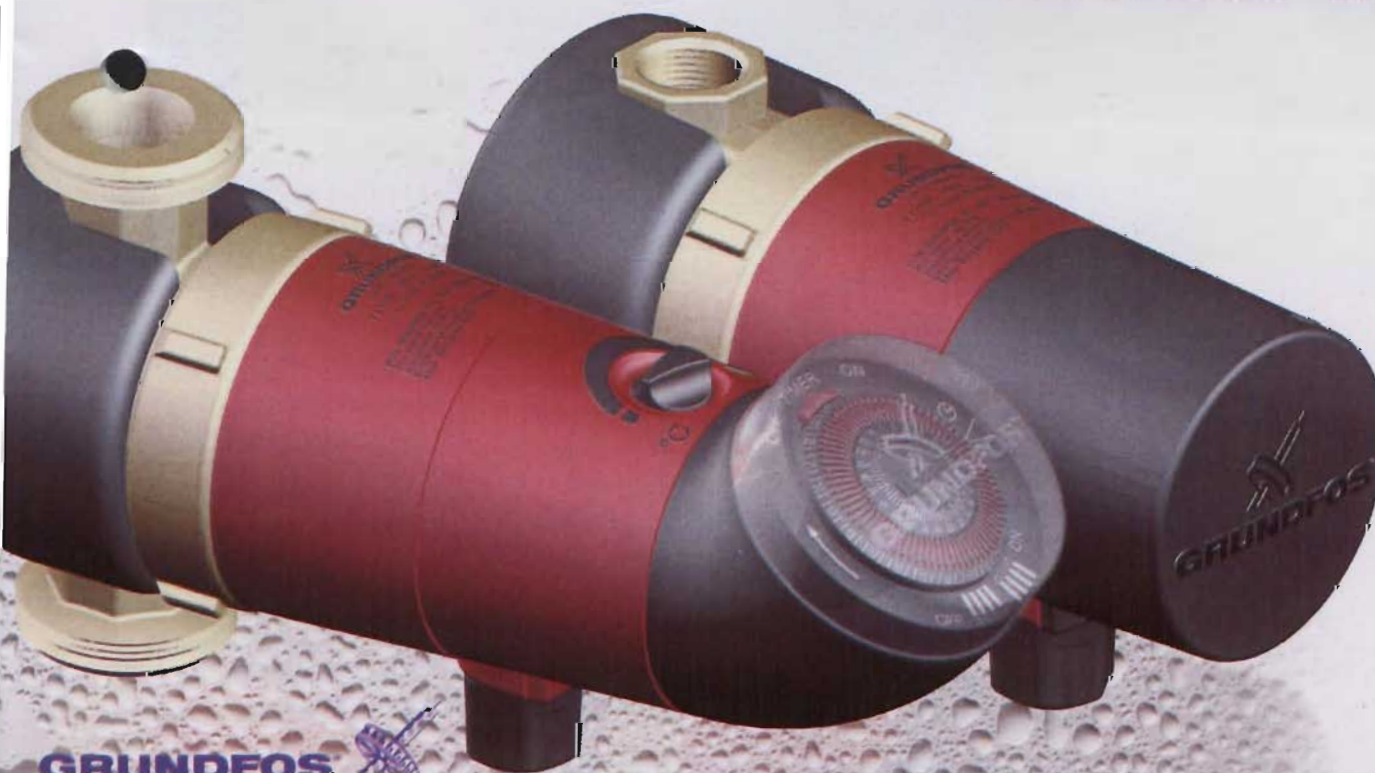
Compact version:

with external thread G 1 1/2,

installation length 110 mm, incl. isolation valve and non-return valve



Indicator light Thermostat Timer



GRUNDFOS



GRUNDFOS (IRELAND) LTD. UNIT 34, STILL ORGAN IND PARK, BLACK ROCK, CO DUBLIN. TEL: 01 - 295 4926; FAX: 01 - 295 4739

Published by ARROW@TU Dublin, 2000

Innovative Concept to House Services Supply

With building services installations becoming more sophisticated, the need for cost-effective housing systems capable of carrying the mechanical, electrical and related services requirements to workstations and points of application has never been greater. Clients now demand unobtrusive, aesthetic, systems which are cost-effective to install and highly-flexible in usage.

InduSign is equally at home in commercial and industrial settings, its high density of services making it suitable for all manner of applications and uses across all industry sectors.

Those charged with responsibility for devising ever-more inventive, cost-effective and flexible services systems carriers — such as mechanical and electrical consultants and contractors, property and facilities managers, and architects — need look no further than InduSign.

to all its pre-wired products.

A key strength is that every scheme is treated as a stand-alone project. Thorsman's specialist design engineers work very closely with the client and services designer, and provide full CAD design-and-build support. The result is a customised solution specifically tailored to suit each application.

Nonetheless, such is the flexibility of InduSign that system additions and re-



InduSign

In InduSign Thorsman Ireland has devised the ideal solution. Whether it is ventilation, water, gas, electrical, telecoms, fume extraction, circuit protection or compressed air, InduSign is the answer. Indeed, InduSign is capable of housing all the aforementioned, along with security and other services requirements.

Additionally, InduSign contributes enormously to health and safety by way of good housekeeping and tidy working environments.

InduSign poles are made from continuously-extruded aluminium under stringent quality-control procedures, each one having its own unique code number. All projects are supplied with a full parts list and wiring diagram and come complete, ready for easy and immediate on-site connection. They are also covered by Thorsman Ireland's 10-year guarantee, which applies

arrangements can be carried out quickly and efficiently with little or no disruption, thereby allowing for additional services strengths to be incorporated without the need for costly alterations or production downtime.

InduSign is not a fixed product item but rather a constantly-evolving systems solution which changes and alters in tandem with the user's requirements.

THORSMAN
THORSMAN IRELAND LTD

In essence, InduSign is the most advanced solution to providing electrical and mechanical services to work stations in the industrial sector.

Typically clients include a diverse cross-section of all industry sectors, from pharmaceuticals, cosmetics, medical engineering, electronics and car manufacturing on the one hand through to IT, financial services, showroom displays and retailing on the other.

Installations to date include Hewlett Packard, Boston Scientific, Tex Medical, General Instruments, Hertz, Eircom, Fujitsu, ACT, Eagle Star and Tellabs.

Thorsman Ireland is situated on a 4,500 sq ft manufacturing facility in Drogheda, Co Louth. The company employs over 80 people and was one of the first companies in Ireland to achieve ISO 9002 accreditation.

When the company first began, the product range focused on fixings.

However, in recent years it has expanded into installation systems for all building types, as well as service poles for commercial and institutional buildings. With InduSign it has now moved in to industrial systems.

The Thorsman Group was founded in Sweden 40 years ago and continues to grow in Europe. It is part of the multinational Lexel Group, which has its headquarters in Stockholm. Thorsman Ireland is one of its premier manufacturing plants worldwide.



THORSMAN
THORSMAN IRELAND LTD



Whether it is ventilation, water, gas, electrical, telecoms, fume extraction, circuit protection or compressed air, InduSign is the answer. Indeed, InduSign is capable of housing all the aforementioned, along with security and other services requirements.



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TRADE NEWS

'Grundfos Comfort' Means Instant Hot Water

We are all familiar with the problem ... you turn on the hot water tap or shower but have to wait several minutes before the hot water finally starts. This is not just unpleasant but also wastes a great deal of water. Now there is a solution – the new

turned on, this cold water first has to be run off. The hot water circulator, on the other hand, keeps the water in the pipes moving, with the result that the water is always available instantly ... at just the right temperature.

To use the pump, a



'Grundfos Comfort' Means Instant Hot Water.

"Grundfos Comfort" hot water circulator.

The new system guarantees instant hot water from the tap. The principle is simple. Without a hot water circulator the water remains stationary in the pipes and cools down. When the hot water tap is

return pipe is needed. The heating engineer can install the Grundfos Comfort directly to the hot water tank in the circulation network, whether it is a new installation or retrofit situation.

Equipped with a modern "ball motor", the new hot

water circulator can withstand the toughest lime precipitation. The sophisticated pump technology also saves water.

The "Grundfos Comfort" hot water circulator is available in four versions. The pump housing is supplied with a heat

insulation shell, and can also be ordered with an integrated non-return and isolation valve.

Contact: Gordon Barry, Grundfos.

Tel: 01 - 295 4926;

Fax: 01 - 295 4739; email:

gbarry@grundfos.com

Website:

www.grundfos.com

Redring Water Heaters

Redring offer two ranges of small unvented water storage heaters, the MW series and the EW series. The MW series is complete with factory-fitted temperature and pressure-relief valve and conforms to BEAB standards.

The EW series is designed to conform to the latest BS EN standard which does not require the factory fitting of a temperature and pressure relief valve. However, where the specification requires, this valve can still be fitted by the installer using the optional kit.

Benefits include:-

- ❑ Will deliver hot water to as many as four outlets;
- ❑ Balanced supply of hot and cold water;
- ❑ Heat loss minimisation and energy savings from short pipe runs and superior insulation;
- ❑ Water outlet via existing tap or mixer;
- ❑ Adjustable thermostat to 70°C;
- ❑ Over temperature safety cut-out;
- ❑ Temperature pressure relief valve factory fitted to all MW models;
- ❑ Neon light indicates when heater is working;
- ❑ Compact shape for undersink mounting;
- ❑ Remote siting possible.

EDI, Redring's distributors in Ireland, have also just unveiled their new website. Full

details of the entire EDI portfolio, including the Redring product ranges, can now be found on www.edihouse.ie

Contact: Malcolm Goggin, EDI. Tel: 01 - 626 4366; Fax: 01 - 626 6471; email: malcolmgoggin@edihouse.ie

Photograph shows Redring MW10 small unvented water storage heater from



Finheat Says Thank You Celtic

Thanks to Finheat – and of course Glasgow Celtic's thrashing of Glasgow Rangers last month – Our Lady's Hospital for Sick Children is better off to the tune of a significant four-figure sum.

The "Old Firm" clash is always a highlight in the footballing calendar, the demand for seats reaching fever pitch and all manner of crazy sums changing hands for the opportunity to attend the game.

In the face of such demand – or indeed more because of it – Finheat's Jim King always auctions the four box seats he owns at Celtic Park to raise money for charity. Year after year the sums raised go to a worthy cause, the most recent recipient being Our Lady's Hospital for Sick Children.

You may have missed a thriller, Jim, but no doubt it was well worth it.

Finheat Completes The Loop

Having consolidated its position in the traditional market segments it has served for the past 25 years, the directors of Finheat Ltd have embarked on a new expansionary phase aimed at broadening still further the scope of building services applications solutions provided by the company.

Principal shareholder and Managing Director Jim King, along with fellow Director Pat Keane, has spent recent months fine-tuning this latest development plan, especially with a view to sourcing an additional world-leading brand to add to its carefully-structured and evenly-balanced portfolio. The fruits of that effort are now set to come on stream with the distribution of Petra chillers, which are manufactured by Petra Engineering Industries Co Ltd, one of the world's leading manufacturers of air conditioning equipment.

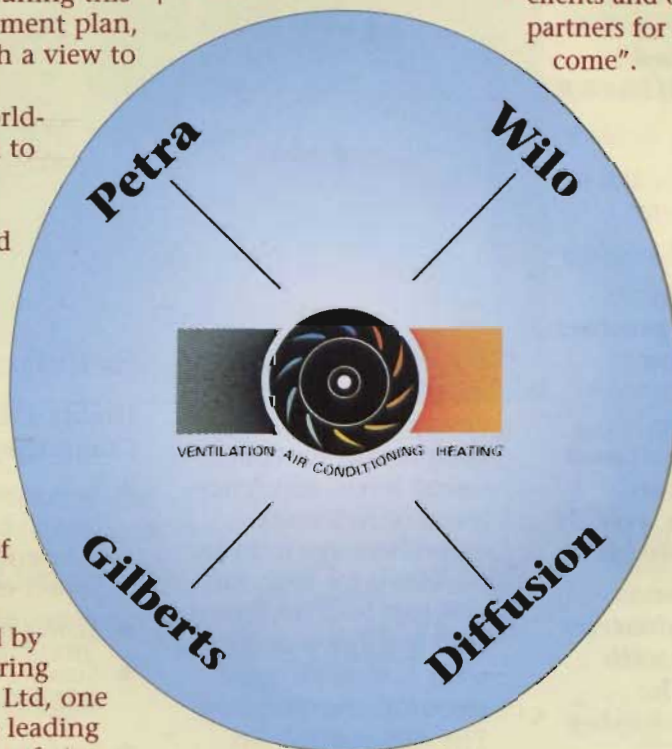
The Petra name is synonymous with innovative design and quality manufacturing processes, all production being carried out according to ISO 9001 Quality Management Systems and the ISO 14001 Environmental Management System. Products are also stamped with the CE and EMC marks, along with meeting all the requirements necessary to achieve Underwriters Laboratories Approval.

Not surprisingly, the Petra name has gained the trust and confidence of business corporations worldwide. Many specify Petra units as standard within their manufacturing and processing plants, particularly where critical environment control is a necessity.

Finheat enjoys an equally-high market standing in Ireland and its support systems will complement and strengthen still further the benefits provided by Petra.

"This gives us tremendous strength across the entire building services spectrum and immediate access to an invaluable source of experience, technical know-how and support mechanisms which we can tap into for the benefit of our clients.

"While it does indeed complete the loop in one respect, it also has the effect of opening up a whole new range of opportunities which will benefit Finheat, our clients and our supply partners for many years to come".



Included is a dedicated installation and commissioning team, along with an 18-month warranty on all units.

"Bringing Petra on board effectively completes the loop", says Jim.

"Finheat can now provide the full spectrum of air movement applications solutions — taking in the pump, chilled water source, fan coil and grilles — in conjunction with our dedicated, leading-brand, international supply partners.

Added Petra Strength



Air-Cooled Water Chiller

APS Series with Screw Compressor

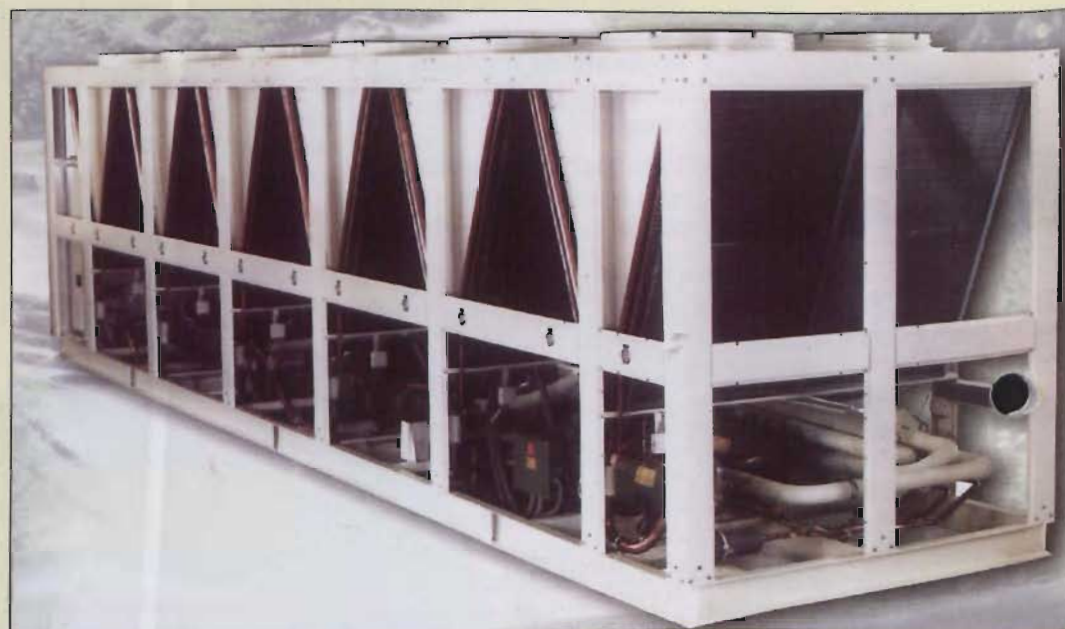
About Petra

Petra Engineering Industries Company Ltd is a global, customer-driven supplier of heating, ventilating, air conditioning and refrigeration (HVAC&R) equipment for residential, commercial, institutional, industrial and process applications.

The company's products are designed and manufactured according to the strictest international industry standards and are sold in over 30 countries worldwide.

The name Petra Engineering Industries is synonymous with good quality. The company's purchasing department is responsible for the procurement of the required materials from more than 100 reputable companies all over the world.

Some of the valuable suppliers are: Bitzer; Alfa Laval; American Air Filters; Copeland; Ranco; and Hager.



Petra's APS units have a quiet, low-vibration design featuring screw compressors to reduce sound levels. Efficiency levels of APS units exceed average industry standards for both full and part load operation, thus saving on operating costs through lower electrical consumption. The APS controls are fully automatic, providing precise temperature control.

Benefits

Highly-Efficient Screw Compressors

- ◆ Less operating cost due to higher efficiency and low power consumption.
- ◆ Lower noise levels.
- ◆ Smaller space requirement.
- ◆ Less maintenance costs due to trouble-free screw compressors.
- ◆ Easy Installation and Maintenance
- ◆ New Refrigerant Application:
R134a, R407C

Technical Features

- ◆ Electric panel and fan motors are IP55.
- ◆ Options available for heat reclaim heat exchanger, compressor part winding, coils protective coating, heat pump, brine chillers, etc.
- ◆ Shell and tube evaporator.
- ◆ Equipped with a complete line of accessories for safe operation and control.
- ◆ V-type condenser coils.
- ◆ Microprocessor controller.

Wide Capacity Range

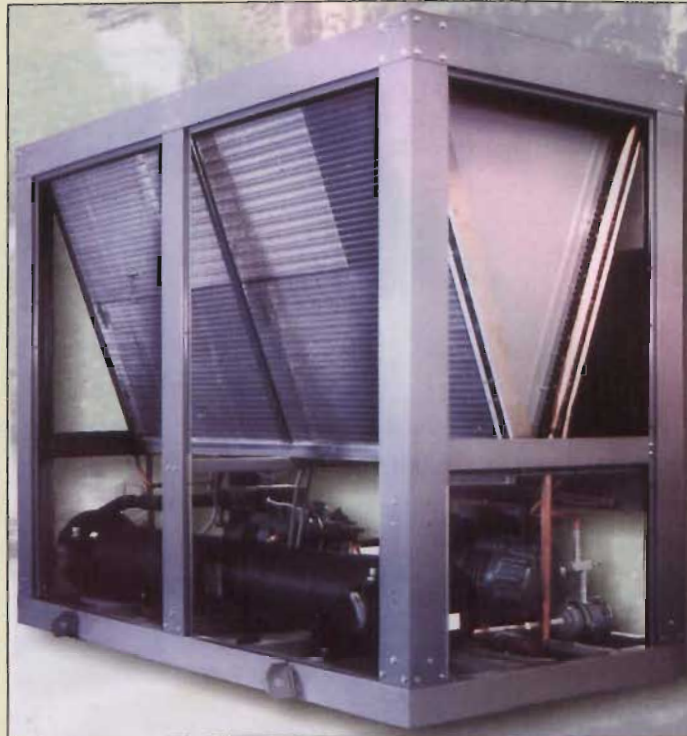
- ◆ 133.4kW to 1752.8kW (38 to 499 TR) at 50 Hz





Air-Cooled Water Chiller

APX Series



Petra's line of air-cooled water chillers are designed to meet the most demanding requirements of air conditioning applications in all types of buildings. These packaged air-cooled water chillers meet the high engineering and performance standards that are characteristic of all Petra air conditioning systems. A wide choice of capacities and options are made available to meet precise designer requirements.

Benefits

- ◆ Quiet Operation and Optimal Performance
- ◆ Compact Design
- ◆ Easy Maintenance and Installation
- ◆ New Refrigerant Application

R134a, R407C

Wide Capacity Range

- ◆ From 133 to 2111kW at 50Hz
- ◆ From 36 to 570 TR at 50Hz



Technical Features

- ◆ Semi-hermetic reciprocating type compressor;
- ◆ IP55 electric panel;
- ◆ Microprocessor controller;
- ◆ Equipped with complete line of accessories for safety operation and control;
- ◆ Options for heat reclaim heat exchange, heat pump chillers, brine chillers, compressor part winding and coils protecting coating, etc;
- ◆ Shell and tube evaporation;
- ◆ Axial condenser;
- ◆ V-type condenser coils.





Packaged Air Conditioning Units

PPH & PPS Series



Petra rooftop packages are highly-efficient and are installed in numerous commercial and industrial applications. They are designed for quick and easy installation and can be equipped with optional controls and accessories, reducing installation requirements to a minimum.

They are available in two types, with hermetic (PPH) and with semi-hermetic (PPS) compressors.

Benefits

- ◆ Minimal Maintenance
- ◆ Extremely Quiet Operation
- ◆ Compact One-Piece Design

Wide Capacity Range

- ◆ PPH – 11.8kW to 157kW (3.4 to 44.9 TR) at 50Hz;
- ◆ PPS – 45kW to 323kW (12.8 to 91.9 TR) at 50Hz.

Technical Features

- ◆ Control panel and fan motors are IP55;
- ◆ Options include electric heater, fully fresh air units, heat pump units, as well as energy-saving economiser control system with roof curb and downward discharge, new refrigerants (R134a and R407C), etc;
- ◆ Units have powder-coated paint to resist harsh weather conditions;
- ◆ Condenser fans are direct driven;
- ◆ Compressor is equipped with a crankcase heater, and internal protection against over-current;
- ◆ High performance evaporator fans are used for quiet and efficient operation. They are selected according to the required external static pressure to achieve the required air flow rate;
- ◆ Hermetic (PPH) and semi-hermetic (PPS) reciprocating compressor.

CONTACT

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VENTILATION • COOLING • HEATING
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NCRL ... You're In the Best of Company!

Congratulations to Ciaron King of Noise Control Research Laboratories (NCRL) who recently stood shoulder to shoulder with the world's leading noise control products and systems manufacturers at Inter-Noise 2000 in Nice, France. This exhibition is the European showcase for all matters relating to noise control and NCRL were the only Irish company to participate.

"Reaction from visitors was phenomenal", says Ciaron, "and even more encouraging still was the positive response from many of our fellow-exhibitors. Strangely, it was the simplicity of many of the noise control solutions we offer which impressed most.

"Another critical factor with visitors to our stand is that we are in a position to test and certify products and systems to all relevant standards and requirements through our own authorised accrediting laboratory. This is the only facility of its kind



Sound Seal Acoustic Enclosure from NCRL

in Ireland and one of only a handful in Europe".

Inter-Noise 2000 is not just an exhibition but rather a combined exhibition/technical programme featuring a varied and all-embracing range of speakers. Between them they covered

virtually every aspect of noise control and related issues, the primary sessions being dealt with under the following headings:—

Noise sources: emission and control; Measurement techniques and analysis; Modelling and prediction; Environmental noise; Effects of noise; Sound quality; Transport noise control; Building noise control; Noise policy; Standards & Regulations.

Apart from the show itself — which proved extremely successful for NCRL and its European network of distributors — attendance at the seminars proved most beneficial. Ciaron King says that all those with an interest in, or responsibility for, noise control and related issues, would do well to get hold of the various papers.

Contact: Ciaron King, NCRL.

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Website: www.ncrl.net



Gauthier Gorny and Ciaron King, pictured on the NCRL stand

C H A M B E R S B L I N D D O U B L E S

Dan Chambers Ventilation Golf Classic

This year's Dan Chambers Ventilation Golf Classic took place at Citywest Golf Club. A field of over 50 took to the course in a doubles competition with a difference. The mystique was added to by virtue of it being a "Blind Doubles" format.

Managing Director, Jim Bollard, said: "It adds to the fun element not knowing who your partner is, and the format gives everyone a sporting chance of winning a prize".

The pairings were drawn out of a hat and put into sealed envelopes before the competition started. Naturally, there were some surprises later on at the prizegiving when people discovered who their partners were. However, this only added to the atmosphere and the craic and a great time was had by all.



Class 1 Winner — Jim Bollard, Dan Chambers Ventilation with Tommy Cummins.



Blind Doubles First — Derek Brogan with Frank Gallagher.

Blind Doubles Second — Jim bollard with Ian Grimsditch.



Blind Doubles Fourth — Michael O'Connor with Sean Costello



Blind Doubles

1st: Derek Brogan and Frank Gallagher;
2nd: Jim Bollard and Ian Grimsditch;
3rd: Colm Devon and Larry Mooney;
4th: Michael O'Connor and Sean Costello;
5th: Joe Whelan and Darran Connor.
Class 1 (singles) — 1st: Tommy Cummins;
Class 2 (singles) — 1st: Pat Bolger.
Longest Drive — Tommy Cummins;
Nearest Pin — Michael O'Connor



Class 2 Winner — Jim Bollard, Dan Chambers Ventilation with Pat Bolger.



Blind Doubles Fifth — Darran Connor with Joe Whelan.

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Viessmann are one of the foremost manufacturers of heating equipment in Europe with 10 production plants and group turnover in excess of £700 million.

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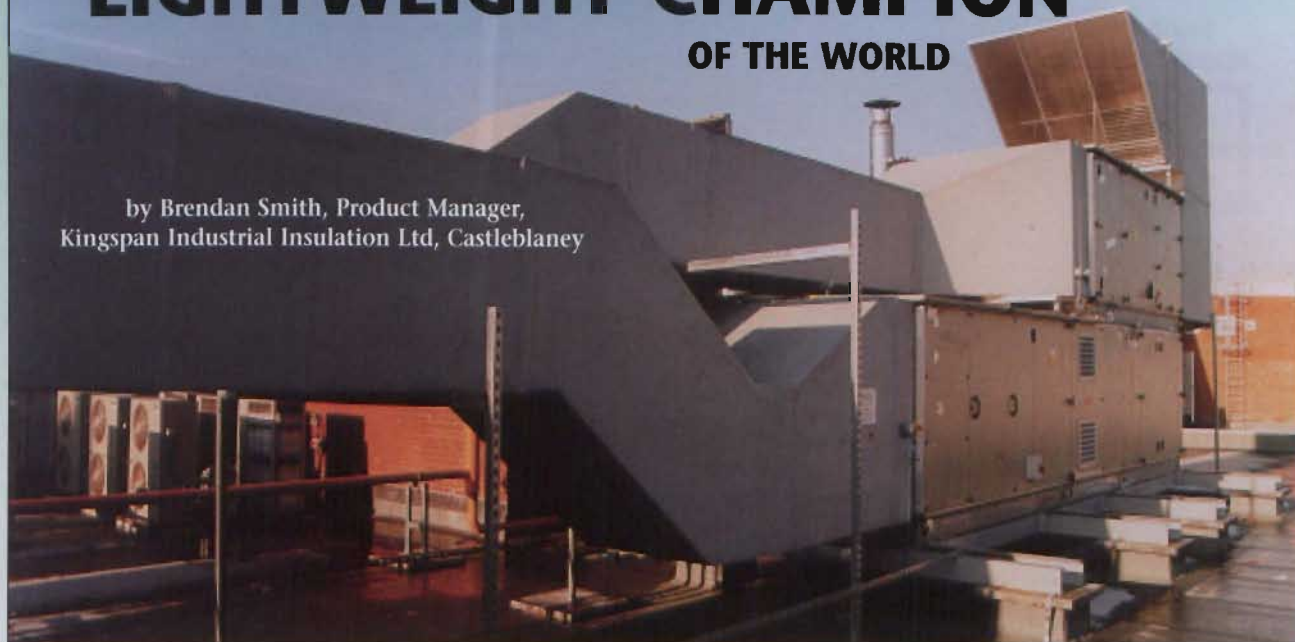
Fax: +353-1-8428820

ADVERTISING FEATURE

Meet the Undisputed PIPE AND DUCT INSULATION

LIGHTWEIGHT CHAMPION OF THE WORLD

by Brendan Smith, Product Manager,
Kingspan Industrial Insulation Ltd, Castleblaney



Kicking up a storm in the world of air ducting, Kingspan Industrial Insulation Ltd has added the revolutionary Koolduct brand to its product portfolio.

And the 'complete system technology' that is unique to Koolduct firmly positions it as Ireland's undisputed market leader in pre-insulated air distribution ductwork.

What's different about Koolduct?

Traditionally, ducting is made of sheet metal which is installed first and then lagged with insulation as a second operation. The Koolduct System comprises pre-insulated ducting with aluminium surfaces and only a single fix required!

But what about the cost?

The installed cost of Koolduct can be up to 10% cheaper than sheet metal ducting. Add the lifetime electrical energy savings of as much as a further 20% - conserved by the Koolduct's superior insulation properties and minimal air leakage - and you are talking about serious money - saved!

Strong but Lightweight

Koolduct's exceptional strength-to-weight ratio, giving an easy-to-handle and simple to install duct, makes this system the lightweight champion of the ducting world. The system weighs-in at a lean 1.4 kg/m² compared to its heavyweight rival, lagged sheet metal, which tilts the scales at a hefty 10 kg/m².

Most older buildings involved in refurbishment projects are not designed to support the additional weight of an insulated sheet metal ductwork system as Koolduct generally eliminates the requirement for additional structural support it has become a firm favourite in commercial refurbishments all over the UK.

For such a lightweight, the System is exceptionally strong, does not require bracing for any size and is completely self-supporting. This strength means that panels are capable of being permanently formed to required shapes, which will then maintain their integrity without deflection - even under the most strenuous operating conditions specified within the Koolduct Design Guide.

Space and Speed

In today's construction industry (and one assumes in tomorrow's) space and time are crucial considerations in project costing. Reducing building volumes means lower costs in construction and heating.

With the Koolduct System's ability to be fitted flush to a ceiling and the elimination of lagging, up to 200mm of valuable space can typically be saved above a suspended ceiling.

Specifiers and installers also often take advantage of the fact that Koolduct can be fixed directly to the ceiling - eliminating the need for special fixings - saving time and money.

As you would expect from a world champion Koolduct is also very fast. The elimination of the lagging operation makes a big impact in the reduction of site time and contractor management. Because of its ability to be manufactured in 4 metre long segments rather than the shorter (and heavier) 1.2 or 1.5 metre segments in sheet metal ducting the pre-insulated system scores strongly - with fewer sections and less handling. Two people can quickly and easily install substantial sizes of prefabricated ducting.

Couple these advantages with wider support centres and you have a guaranteed fast track installation - every time! The Koolduct System can be installed in half the time of sheet metal ducting - and that's before you even think of the time for lagging the sheet metal. Faster installation obviously means lower costs and no work disruption for other trades.

Minimal Air Leakage

The Systems technology, unique fabrication methodology, its patented jointing technique and the complete line of bespoke accessories yield minimal air leakage. Compared to air leakage from sheet metal ducting Koolduct has an almost airtight case and easily meets the stringent requirements of HVAC DW 144 - Class C (high pressure).

ADVERTISEMENT FEATURE

Sheet metal ducting leaks air – most metal ducts are Class A. It is extremely difficult to get sheet metal to achieve Class C.

No Fibres and Clean Air

Environmentalists like the Koolduct System. The airstream in the System's hermetically sealed duct flows only across aluminium and does not have any contact with any material containing loose fibres. This property makes it especially suitable for high specification projects.

If sheet steel ducting leaks, fibres could be blown off the duct and into the general environment – then on into recirculation systems and back into the air handling system.

Versatility and Aesthetics

Because of its high specification, clean appearance and impeccable environmental credentials the System can be installed internally, externally, concealed and forgotten above a false ceiling or visibly mounted even where aesthetics are a concern. It can be installed in very high temperature, high relative humidity ambient operating conditions – it even comes with a purpose designed thermal break flange system for difficult environments.

Koolduct has been installed around the world in residential, commercial and industrial situations and, also, in special applications such as food industries, pharmaceutical, special clean air environments and hospitals. The System is very low maintenance and is easily cleaned with air and washed with water.

The Koolduct System

This System virtually eliminates all the problems of traditional metal ductwork while at the same time offering extra advantages to both the consulting engineer and the fabricator/installer. Today Koolduct panels are manufactured to the exacting ISO 9002 standard.

The Koolduct system is constructed from 22mm thick high density (55-60 kg/m³) closed cell phenolic insulation panels faced on both sides with low vapour permeability 25-micron aluminium foil reinforced with a 5mm glass tissue mesh. As well as being CFC-free, phenolic insulation offers several further advantages including excellent fire resistance with negligible smoke emission and moisture resistance.

When it comes to flexural and compressive strength the performance is just as impressive. When tested to BS2972 Koolduct panels have an average flexural strength of 1,200 kN/m² – with an average compressive strength of 249 kN/m².

As for thermal conductivity (k-value) – the system is a cool performer – the thermal conductivity of the phenolic insulation panels is 0.018W/mK at 10°C – far superior to any other type of insulation. Another important property is that the Koolduct System is suitable for use in peak temperatures as high as 80°C and continuous operating temperatures up to 70°C.

To simplify duct jointing the System comes with a patented range of aluminium grip flanges – which also facilitate fast connection to generic duct system components such as fire dampers, VCDs, attenuators, flex duct – and even conventional sheet metal ductwork.

And to facilitate greater efficiency and ease-of-working the Koolduct System has been evolved to include standard accessories such as glue, tape, silicone sealant and gaskets – all highly specialised and manufactured specifically for Koolduct.

Fire Performance

Fire is a vital consideration for engineers when designing an air ducting system. Ducting systems can form very efficient fire paths. Independent laboratories have extensively tested Koolduct panels. They passed every test with flying colours.

The Koolduct panel achieves a Class O rating to the Building Regulations based on the results of the following tests: BS476: Part 6 (Fire Propagation) and BS476: Part 7 (Surface Spread of Flame).

A deadly scourge of modern building materials is that of smoke generation – except in the case of Koolduct. The System panels achieve a mean maximum obscuration not exceeding 5% when tested to BSS111: Part 1 (Smoke Generation) and when the BS6401 test for Smoke Opacity is applied the results are equally reassuring – the average specific optical density in non-flaming mode is 8; while in flaming mode the result is 5.

When tested for smoke toxicity to the NES 713 standard the panels achieve a toxicity index not exceeding 6.9.



Network of Trained Fabricators

Designed for simplicity and longevity, Koolduct is easy to manufacture and assemble either in the workshop or on site requiring only a limited number of hand tools. It is easily modified or repaired with doors or access hatches being readily added – even as a retrofit.

However, a world class system is useless unless it is supported by first class people. Koolduct is installed only by specially trained fabricators. Kingspan holds purpose-designed, comprehensive training courses open only to registered contractors who seek to achieve standards of uniform excellence.

The Clear Leader

Koolduct is the clear leader in the new generation of insulated prefabricated ducting and has already proved itself in the highly competitive global marketplace. The Research and Development team at Kingspan are dedicated to maintaining this lead and are constantly seeking ways to enhance the Koolduct System.

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INTELLIGENT CONTROLS

Unitron 2000 — The New System You Already Know

Cylon Controls, Ireland's only manufacturer of intelligent controls, has introduced a new controller line-up for the Unitron building management system.

The Unitron system has been continuously enhanced and improved since its introduction in 1994. This is the first system-wide repackaging to occur, prompting Cylon to rename the system Unitron 2000.

In terms of hardware, Unitron 2000 features a revised and rationalised controller line-up, and a new local keypad/display panel. The underlying system architecture — combining proven RS485-based local area networks and high-speed twisted pair, co-axial or fibre-optic building networks — remains, with capacity for up to 255 local area networks in a single system.

Ethernet and TCP/IP connectivity have been added to the system, allowing supervisor-system communications via intranets, extranets or the World Wide Web. Unitron 2000 systems can display building data in web browsers via a dedicated local web server using hypertext mark-up language (html), or through Cylon's WN3000 supervisor. This greatly increases the options for facilities management.

Not surprisingly, given the move towards TCP/IP and ethernet for office systems, it is internet connectivity that features in Cylon's new European advertising campaign for Unitron 2000.

Unitron 2000 controllers ... where more is less!

The number of separate plant and environmental controllers in the Unitron 2000 range has been reduced from 13 to eight variants when compared to the previous line-up. There are now six types of communications controller instead of the previous eight.

Simplifying system design, ordering and production are obvious benefits of a streamlined range. Interestingly, though, the range now also provides a

closer match to building services plant as well.

For example, the largest controller in the range — the UC24, with eight inputs and 16 outputs — now includes output-switching relays, obviating the need to use separate relay modules. It comes in a standard 120 x 200 Unitron enclosure, which is amazingly small for the punch it packs.

At the other end of the scale, UCU unitary controllers now come with eight or 10 input and outputs. The revised UCU range includes a variant with integral airflow sensor specifically for controlling variable air volume (VAV) terminals. Other variants have triac outputs for switching or positioning external devices such as valves, or dampers.

A small but significant change is that all Unitron 2000 unitary



controllers now include EEPROM Strategy Memory. EEPROM provides non-volatile data storage without the need for battery back-up, giving all the advantages of both application-specific and programmable systems in a single unit.

Eliminating batteries from unitary controllers overcome a major maintenance headache; sooner or later, with most distributed control systems, it is necessary to disrupt building usage to gain access to controllers and replace batteries.

Finally, a key feature is that Unitron 2000 hardware can be reverse engineered onto existing Unitron systems, providing a clear upgrade path for current users.

Displaying the goods

Cylon's latest WN3000 windows-based software is compatible with Unitron 2000 hardware and remains the ideal PC supervisory interface for Unitron installations.

The new Unitron 2000 keypad/display unit differs from previous models by its serial connection to controllers. The distance keypads can be located from the controller panel now increases to 50 metres, or greater with repeaters. The benefit of this change is that a relatively low-cost and easy-to-use interface can now be located wherever required, for example, outside plant rooms or in offices. The larger 4x20 character multi-language display eases navigation and alarm handling.

Communications and Modbus

Compatibility has long been a strong point of Cylon systems. Last year the OS (Open system) model was introduced, a communications device that links Unitron to other building systems. This allows Unitron 2000 to talk to over 120 different manufacturers' building systems and network standards such as Echelon and Batibus.

For Unitron 2000, Cylon has introduced a communication controller which supports the Modbus protocol, an innovation designed specifically to simplify the interfacing of external systems such as fire, security, access, lift, electrical meters and variable speed drives.

All in all, Unitron 2000 brings a raft of changes that underscore the appeal of a thoroughly proven system, making Unitron an intelligent solution for buildings and estates of all sizes.

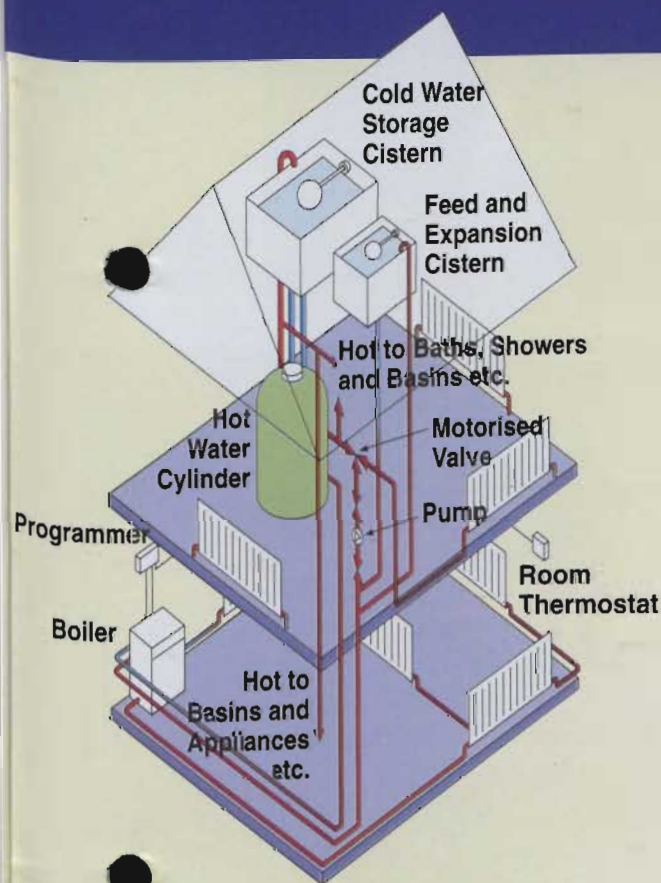
Contact: Cylon Controls.

Tel: 01 - 836 6626; Fax: 01 - 836 5108;

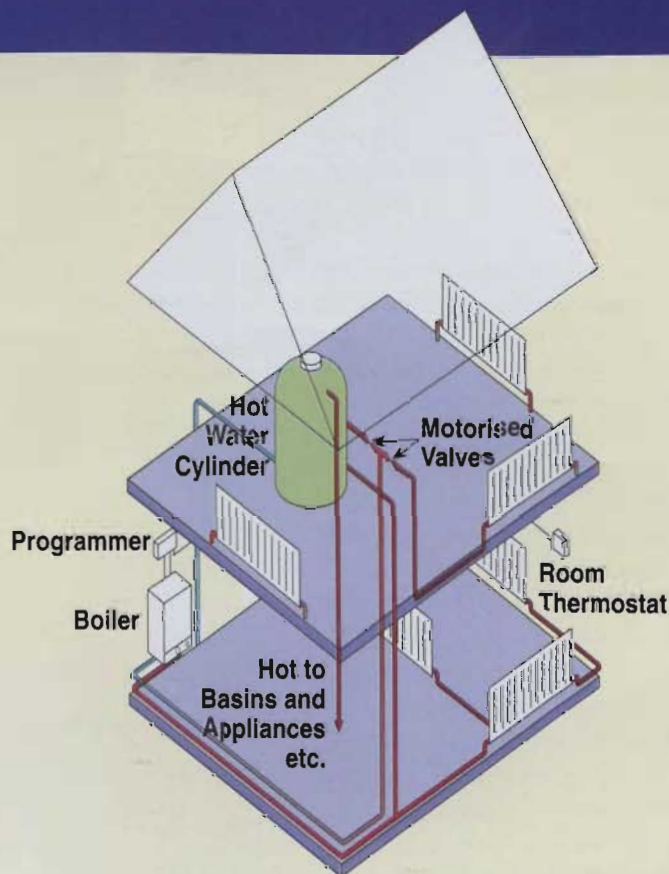
email: askus@cylon.ie Website:

www.cylon-controls.com

CHOOSE THE BOILER THAT REDUCES YOUR OVERHEADS



CONVENTIONAL SYSTEM LAYOUT



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Whichever way you look at it, the exceptional Worcester Bosch SBi system boiler saves all round. With components such as the bypass, pump, expansion vessel and even the filling link built into one compact, wall-mounted unit, it occupies far less space. Reduces installation and maintenance times. And benefits from the proven technology of the advanced Worcester Bosch CDi range, guaranteeing high efficiency, low running costs and cleaner emissions while delivering all the heating and hot water your tenants could need. Not forgetting the optional security features which ensure thieves will never get away with it.

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The Car Now Parked on the 10th Green ...

... is still awaiting an owner. For a number of years now Hevac has put up a car for anyone scoring a hole-in-one on the 10th at Hermitage during its annual golf outing. This year was no exception and, true to form, the participants once again succumbed to the pressure and failed to take advantage. Still, there is always next year.

Not that the day is about winning cars, or anything else for that matter. While everyone takes the golf seriously, this occasion is very much a relaxed affair. The main purpose is to bring together all the trading partners, and friends, of Hevac and the Tube Company of Ireland, in an environment once removed from the pressure of the workplace.

As such it is an extremely successful occasion with suppliers from all over Europe mixing with consulting engineers, contractors, merchants and Hevac and Tube Company personnel from all over Ireland.

On the day just over 100 played golf, with 120 sitting down to the meal later in the evening after which the prizes were presented. The weather was perfect, the odd intermittent shower failing to dampen the spirits, while the course itself was in excellent condition.

On occasions such as this the name Hevac becomes a byword for hospitality. Nothing is left to chance, everything is done with precision yet, in a manner which is gracious and somehow understated. As always the golfers "goody-bag" was extremely well stocked, while everyone sitting down to the meal received a full canteen of Newbridge cutlery.

In fact, Newbridge was the theme for the day with many of the prizes being silver-plated Newbridge cutlery, clocks, picture frames, etc. However, the main prizes were beautiful specially-commissioned, hand-crafted, mahogany tables.

Entertainment before, during and after the meal was by Blas, John English's secretary Madeline Patton being a group member. Guest speaker was the inimitable Michael O'Muircheartaigh.

If that was not enough, the party then adjourned to Moran's Red Cow Hotel in specially-provided coaches where the craic continued well into the early hours.

• continued on page 28



Peter Everitt with Michéal O'Muircheartaigh, Mick Fennelly and John English.

Francis O'Dwyer with Paul O'Shaughnessy and James Brereton.



Declan Kissane with Todd Ahern, Class 1, winner

Declan Kissane with David Tumbleton, Class 2, third



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Honeywell



Declan Kissane with Vincent Broderick, suppliers category, second



Nearest the Pin — Vincent Broderick (again!), winner with Gianluca Reami (Sime Italy), and Declan Kissane.

Result Sheet

Overall Winner — Martin Madden, 39pts;

Class 1 — 1st: Todd Ahern, 89pts
2nd: Thomas Gleeson, 38pts
3rd: Tom Neasy, 38pts

Class 2 — 1st: Steven Quinn, 39pts
2nd: Pat Lonergan, 37pts
3rd: John Littlefield, 36pts

Class 3 — 1st: Donal Nolan, 36pts
2nd: David Tumbleton, 35pts
3rd: Joe Buckley, 34pts

Suppliers Category

1st: Aiden Walsh, 40pts
2nd: Vincent Broderick, 37pts
3rd: Geoff Hudspith, 29pts

Staff Category

1st: Pat Fitzpatrick, 34pts
2nd: Declan Kissane, 28pts
3rd: Tony Murphy, 25pts

Front Nine

1st: Arthur Carmody, 21pts
2nd: Sean Walsh, 21pts

Back Nine

1st: Paul Reilly, 19pts
2nd: Michael McGowan, 19pts

Longest Drive: Paddy Fitzgerald

Nearest the Pin: Vincent Broderick



Declan Kissane with Pat Fitzpatrick (staff prize winner)



Declan Kissane with Thomas Gleeson, Class 1, second.



Declan Kissane with Jimmy Whan (accepting prize on behalf of Donal Nolan, Class 3, first)



Right: The one that got away ... yet again!

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ABB ANNUAL GOLF OUTING

ABB Hermitage Scorcher!

ABB Building Systems' annual golf outing took place at Hermitage Golf Club recently with just on 50 participants taking on the challenge of this excellent course. It was an experience made all the more enjoyable because of the perfect weather, which in turn made for some very fine scoring.

As always, the hospitality of the ABB personnel made the occasion very special, be it on the golf course or throughout the other related proceedings such as the dinner and presentation of prizes.

Among those participating were consultants, contractors, energy managers and facility managers.

Overall winner on the day was Dara Carey of Callaghan Engineering, with 38pts. He plays off 12. Second was Brendan Blake of UCD Building Facilities with 35pts, playing off 22.

The various Class winners were as follows:

Class 1

- 1st: Brian Raymond, Delap & Waller (10) 35pts;
- 2nd: Mick Connors, Curragh Army Camp (10) 33pts;
- 3rd: Michael Bready, Delap & Waller (15) 29pts;

Class 2

- 1st: Michael O'Connor, J V Tierney & Co (21) 33pts;
- 2nd: Derek Brogan, EEL (18) 32pts;
- 3rd: Brian Acheson, EEL (21) 30pts

Class 3

- 1st: Jimmy McKenzie, Elenco Engineering (24) 34pts;
- 2nd: Maurice Leen, Rotary (22) 32pts;
- 3rd: Sean Flynn, OPW (23) 29pts;
- Nearest the Pin:** Michael White, EEL (14);
- Longest Drive:** Brian Priestley, EEL (24);
- Staff Prize:** Robert Kenny (15) 37pts.



Derek Brogan, EEL who took second place, Class 2.



Mark Grimes, ABB Building Systems, presenting overall winner Dara Carey with his trophy



Dave McMenamin, ABB Building Systems with Jimmy Cullen, JV Tierney and Steve Tomlinson, Landis & Staefa



Thomas Norstrum, ABB Building Systems with Tony Donoghue, VMRA

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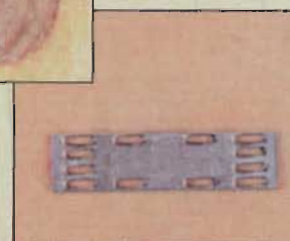
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